

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ZE' EV DROKI

Serial No. 08/334,843

Filed: November 4, 1994

**For: ELECTRONICALLY PROGRAMMABLE  
REMOTE CONTROL ACCESS SYSTEM**

Art Unit 2609

Examiner: Weldon, U.

FOURTH DECLARATION OF ZE'EV DRORI

I, Ze'ev Drori, hereby state the following:

1. I am the inventor of the invention of the subject patent application, which has been assigned to Clifford Electronics, Inc. ("Clifford"). This declaration is further to my declarations previously filed December 12, 1994, June 1, 1995 and October 23, 1995.

2. The invention has literally obsoleted systems which do not include electronic programmability of the access code in accordance with my invention, to the point that every single remote control security system model sold by the assignee Clifford Electronics, Inc. (Clifford) and its affiliates today incorporates the invention. In my declaration filed June 1, 1995, I stated that Clifford has sold over one million security systems which incorporate my invention. I would like to further amplify this statement. Since the introduction to the marketplace of my invention, Clifford sales of security systems which include the invention at issue here have materially increased, year by year.

3. My invention has outdated conventional systems because it provides tremendous advantages to the manufacturer, the installer, and to the end user of vehicle security systems. The user is able to virtually instantly replace a lost or stolen remote control, without having to know the code, or to have mechanical or electronic skills. The manufacturer and retail dealers can save money and

better manage the remote control inventory by not being required to match specific remote controls to a specific control unit, since any remote control in inventory may be programmed into any control unit. And, installers need not spend time to set transmitter and receiver switches, or risk the consequences of mistakes in scratching conductive traces to match the transmitter and receiver. Lastly, the fact that the transmitter is non-user-programmable means that the number of possible codes, i.e. the number of bits in the digital code, can be greatly increased for a given size of transmitter housing, since there is no need for many switches or accessible circuit traces.

4. Since Clifford first introduced this invention in vehicle security systems, the market acceptance has been sensational, because the invention has no shortcomings, while offering tremendous advantages over the conventional vehicle security systems. Clifford's sales of over one million units of vehicle security systems which incorporate this invention have been in the aftermarket, i.e. sales to customers who install the security system in previously manufactured vehicles.

5. Clifford's aftermarket competitors have realized the tremendous advantages provided by the invention at issue here, to the extent of copying the invention and incorporating it in their own products. This is evidenced by the accompanying documentation, listed in Exhibit A, which demonstrates the widespread, indeed almost universal, use of electronic programmability in accordance with my invention, by aftermarket competitors.

6. Since the early 1990s, the major vehicle manufacturers have also recognized the importance and success of my invention, by incorporating in their vehicles security systems which include my invention. These vehicle manufacturers include, among many others, General Motors, Toyota

and Nissan, as evidenced by the accompanying documentation listed in Exhibit B.

7. The information described above and the documentation included with my declaration decisively and unambiguously show the phenomenal commercial success of my invention. It is undisputable that, when considering the sales of Clifford and those of the vehicle manufacturers and vehicle security system manufacturers, millions of vehicle security systems are sold each year which embody my invention. Each of these competitors and vehicle manufacturers could sell security systems of the conventional type. The fact that they have instead copied my invention is powerful evidence of its technical superiority.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: February 28, 1996

  
Ze'ev Drori

EXHIBIT A

1. Whistler Signature Series Installation Guide, page 41.
2. Whistler Assert, one page
3. Directed Electronics, Inc., "Your Valet", 710T Remote Keyless Entry System, Installation guide, pages 10, 11.
4. Excalibur, K-9 Car Alarm, page 32, "Learning Transmitter Code."
5. Product Literature for Ungo 6000, page 6.
6. Product Literature for Code Alarm Elite 950.
7. Product Literature for Bulldog Professional Series Car Alarm.
8. Product Literature for Seco-Alarm, Enforcer 200A8.
9. Product Literature for Directed Electronics, Inc., model Ultra 900.
10. Product literature, "Auto Sound & Security/February 1996", for Directed Electronics 533 series of vehicle security systems.
11. Product Literature for Directed Electronics Sidewinder 6000 HF vehicle security system.
12. Product literature for Radio Shack 49-71 remote control alarm system, page 15.
13. Product literature for Radio Shack 49-771 remote control alarm system, page 8.
14. Product literature for Audiovox APS-300.
15. Product literature for FBI car alarm

## 10. System initialization and check-out

### Procedure to initialize transmitters code to CPU

This is the time to teach the CPU to respond to the two transmitters. Follow this procedure:

Step 1. Turn ignition to the "ON" or "ACC"- if connected- position...do not start vehicle.

Step 2. Using one of the remotes.

Press Arm/Disarm button once. Siren will Chirp.

Using the other remote.

Press Arm/Disarm button once. Siren will Chirp.

Step 3. Turn ignition off. LED will still be solid red with a slight flicker to it.

Step 4. Turn ignition on - off or press Arm/Disarm button. LED will be in default condition which should be flashing green, preparing to passive arm in 30 seconds.

ACCLAIM model's red LED should be rapidly flashing.

At this time the Signature Series system is operational and will respond to remote control commands.

**NOTE: If the vehicle is left alone, the alarm will passively arm!**

### Operation check

Step 1. Press Arm/Disarm Button.

Observe that the vehicle chirps once, doors lock - if installed and the lights flash.

Step 2. Press Arm/Disarm Button.

Observe that the vehicle chirps twice, doors unlock - if installed, lights flash and domelight comes on for 30 seconds.

Step 3. Press Vehicle Locator/Panic button and release within 1 - 2 seconds.

Observe siren sound for 3 - 5 seconds and lights flash.

Step 4. Press and hold Vehicle Locator /Panic button for more than 3 seconds.

Observe siren sound and light flash. You must turn this function off by Arm/Disarm command.

Whistler Assert

formation Chart

is a chart explaining the LED colors and

s all information will be displayed on the  
yed in the following sequence.  
Passive Arming Off.

Alarming	Ignition On
	Shock Sensor Intrusion Memory
	Shock Sensor OFF Indicator.
ALARMING CONDITION	Door Sensor Intrusion Memory
	Passive off reminder manual Arming on
	Negative Trigger. (trunk) Sensor was violated while system was in valet mode.
	Low Remote Battery Indicator

turn off your ignition and proceed to

Valet Mode On/Off

1. Disarm system.
2. Turn Ignition On.
3. Hold Valet Switch in  
for 3 seconds.
4. While Holding (3) Press Vehicle Locator  
remote button for less than 2 seconds.
5. Valet Mode On = (AMBER LED)  
Valet Mode Off= (Disarm LED)

Emergency Override, Disarm Without Remote.

1. Enter Alarming Vehicle
2. Hold in Valet Switch
3. Turn Ignition On/Off/On/Off/On
4. Vehicle Stops Alarming
5. Vehicle Now in Passive Mode with  
delayed entry. See instructions.

Learning New Remotes

1. Disarm System
2. Turn Ignition On
3. Press Valet Switch 3 times  
within 5 seconds
4. Transmit with ARM button on remote.
5. Turn Ignition Off.

LED Indications after Ignition On.

Alarm History:  
Flash RED Door  
Flash GREEN Shock  
Flash AMBER Negative Trigger  
Low Battery: Alternating Flash RED/GREEN  
Shock Off Reminder: Solid Green  
Passive Arming Off Reminder: Solid Amber